Amateur Radio Newsline(tm) Report 1560 - July 6, 2007

Amateur Radio Newsline report number 1560 with a
release date of Friday, July 6, 2007 to follow in 5-4-3-2-1.

The following is a Q-S-T. The mystery signal that
put space shuttle video on a Chicago baby monitor
did come from ham radio. Also, North Carolina's
governor signs a ham radio antenna protection
bill, D STAR goes into space and Amateur Radio
Newsline announces its choice for 2007 Young Ham
of the Year. Find out who gets a free trip to
Spacecamp this year on Amateur Radio Newsline(tm)
report number 1560 coming your way right now.

(Billboard Cart Here)

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HAM RADIO IN SPACE: ME AND MY BABY - MONITOR - MYSTERY SOLVED

Ham radio is responsible for the NASA video seen
over an Illinois mothers baby monitor during the
recently concluded STS 117 space shuttle
flight. Bill Pasternak, WA6ITF, reports:

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A radio club in Schaumburg, Illinois says it is
likely responsible for the NASA spaceflight video
over baby monitor. But it turns out that the
signal seen only by suburban Chicago teacher
Natalie Meilinger was not on 2.4 GHz as originally thought.

It happened this way. The club was
re-transmitting STS 117 mission video on
it's 910.25 MHz amateur television
repeater. The system runs 100 watts out into a
par of horizontal yagis. These antennas are at
70 feet with one pointed north and the other to the west.

And it turns out that not all baby monitors
operate on 2.4 GHz as everyone first
thought. Some are in the 900 Mhz spectrum while
others are dual band units. If you do the math
it mean that a more than receivable signal could
easily reach the Meilinger home and be displayed on the monitor receiver.

So why was no I-D noted by the Meilinger family?
During the mission the transmitter had the call
sign K9MOT displayed in the lower right corner of
active video every 10 minutes - per FCC
identification regulations. Any properly aligned
video monitor like those used in Amateur
Television stations would have displayed it

because the I-D fell inside what broadcast engineers call the video safe zone. That's the screen area you are supposed to see in off air television viewing.

But a baby monitor is not a broadcast quality monitor. In reality, most are low-end consumer products that tend to overscan the picture tube face. That's fine for watching the kids at play but not for trying to see the whole picture. And that was likely the case with Natalie Meilinger's baby monitor as well.

The K9MOT identifier was there, but the baby monitor had to much picture width. That put it out of the picture area her unit could display so she and anyone else looking at the monitor screen couldn't see it.

Mystery solved thanks to some good sleuthing on the part of some Illinois hams.

For the Amateur Radio Newsline, I'm Bill Pasternak, WA6ITF, at the studio in Los Angeles.

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By the way, this is the 5th year the club has been re-broadcasting NASA video over its K9MOT repeater but only the first time to their knowledge that its been received by a non ham. (ARNewsline(tm) with information provided by K1ATV and others)

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RADIO LAW: N.C. ENACTS HAM RADIO ANTENNA PROTECTION LAW

North Carolina is the latest state to adopt legislation that guarantees most hams can erect and use antennas. Amateur Radio Newsline's

On Friday, June 29th, North Carolina Governor Mike Easley signed HB1340, also known the "Amateur Radio Antenna bill" into law. The measure which is crafted to follow the guidelines set forth in the FCC's Federal Preemption Order PRB-1. It permits antennas up to 90 feet in height in areas regulated solely by municipal ordinances.

However like in other states, the North Carolina measure does not override those Conditions, Covenants and Restrictions which might preclude antennas or even the ownership or use of radio transmitting gear by those who have signed deeds with those restrictions built in. Such CCR's are still deemed to be personal contracts between a buyer and a seller. As such, they remain outside the realm of federal or state regulation. They were also specifically excluded when PRB-1 was enacted.

The North Carolina bill was introduced in February. It passed unanimously in both the House and the Senate and takes effect October 1st. With this action, North Carolina becomes the 25th state to enact laws that guarantee the rights of its ham radio operators to have the antennas they need to go on the air. (N2COP)

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RESCUE RADIO: BARSTOW CA SHERIFF WANTS HAMS FOR EMCOMMS

A California Sheriff is recruiting ham radio operators in Barstow. This, to be a part of a local emergency communication system. Amateur Radio Newsline's Bruce Tennant, K6PZW, has more:

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Sgt. Tim Lotspeich, KI6GH, of the Barstow sheriff station says that he watched as hurricane Katrina devastated New Orleans. He also saw that it was Amateur Radio operators who rushed in to take over for the crippled the high tech communication system left in ruins the storm's wake.

That's when Lotspeich decided to adopt the old technology of ham radios into a new emergency-communication program in the California's High Desert. He also notes that during the fires in the San Bernardino mountains, it is always Amateur Radio operators who have traditionally helped fire officials with communications. KI6GH wants to expand that role.

KI6GH notes that there are a couple hundred people in the Barstow area are licensed radio amateurs. He is hoping to get about 10 of them to volunteer.

For the Amateur Radio Newsline, I'm Bruce Tennant, K6PZW, reporting from Los Angeles..

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Anyone interested in volunteering can contact Sargent Lotspeich by e-mail to deputysheriff@verizon.net (Desert Dispatch)

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RESCUE RADIO: RAYNET ACTIVATES AS STORMS HIT GREAT BRITAIN

In emergency communications news from around the world, word that RAYNET groups in many parts of Great Britain were placed on standby last

weekend. This, as torrential rains caused rivers to overflow.

The Radio Society of Great Britain's Sheffield
and Rotherham RAYNET groups were called out on
Sunday, June 24th to provide point to point
communications. They operated for two days
before finally standing down on Tuesday evening, June 26th.

Net control station operator Mark Harrison,
G6NVT, commented that it had been an exhausting
30 hours for the ham radio volunteers. RAYNET is
the U-K equivalent of our A-R-E-S and RACES, combined. (GB2RS)

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RESCUE RADIO: GERMANY TRAINS INDIA'S EMERGENCY COMMUNICATIONS HAMS

An Emergency Communications training session has
been held in Vorarlberg, Austria. This, to
assist hams from India in learning the required techniques.

Eight hams from India selected by that nations
selected by National Institute of Amateur Radio
took part in the training sessions. Participants
from India included VU2MY, VU2JMA, VU2YOR, VU2SAX, VU2JOS and VU2MYH.

The Vorarlberg regional section of the Austrian
Amateur Radio Federation organized a four day
training exercise that was carried out by
Austrian and one German radio amateurs. The event
was featured in news reports by Austrian television.

The decision to send the hams to this special
emergency communications training event was
supported by many leading politicians of India.   (DL3SBB)

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HAM RADIO IN SPACE: D-STAR RELAYED THROUGH AO-27

D-STAR has gone into space. Well at least a
D-STAR signal has and it has been successfully
relayed back to mother Earth by a ham radio satellite.

On July 1st, during the 20:00 UTC pass over North
America, the AO-27 Easy Sat ham radio satellite
was used by Michael Wyrick, N3UC, in Haymarket
Virginia and Robin Cutshaw, AA4RC, in Atlanta
Georgia, for what's believed to be the first
ever space relay communications using D-STAR radios at both ends of the
 path.

All radios used in this contact were made by
Icom. IC-2200's were utilized on the uplink by
both N3UC and AA4RC. On the downlink side N3UC
used an IC-2820 while at AA4RC it was an IC-91AD.

Doppler shift did prove to be a minor problem. Even so, the digital QSO was completed with comparative ease.

Thirteen years ago, AO-27 became the first Easy Sat by putting an FM repeater in space. One that has provided many hams the ability to use satellite relay without the expense of multi mode radios. Now that same bird has proven that D-STAR can also be relayed through its on-orbit system and opening up a whole new world of digital ham radio in space for anyone with D-STAR gear to enjoy. And according to N3UC, the AO-27 control operators fully support and encourage the use of D-STAR via satellite on that ham radio bird. (WB9QZB, KA9SCF)

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Break 1

 From the United States of America, We are the Amateur Radio Newsline, heard on bulletin stations around the world including the W4GSO repeater serving Greensboro, North Carolina.

(5 sec pause here)

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TECHNOLOGY FRONT: D-STAR FIRST EVER NATIONAL MEETING

Still on the subject of D-STAR, an event for enthusiasts of this emerging technology has been announced to be held in conjunction with the upcoming Huntsville Hamfest and ARRL National Convention. This, with word that the first-ever national meeting of D-STAR users will be held in Huntsville, Alabama. Amateur Radio Newsline's David Black, KB4KCH, is at our South-East Bureau in nearby Birmingham with more:

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The first-ever national gathering of D-STAR users is set for the Embassy Suites Hotel adjacent the Von Braun Center, the traditional home of the Huntsville Hamfest and this year's ARRL National Convention.

The meeting takes place Saturday August 18th, from 6 until 8 P.M. It will allow hams involved and interested in D-STAR to gather with counterparts from across the U-S. Some of the topics to be covered will include emerging D-STAR networks, innovations, new ideas, hardware and the fun side of D-STAR operation. Refreshments,

door prizes and handouts are planned. Huntsville will also be the site of GAREC, the Global Amateur Radio Emergency Conference, set for August 16th and 17th at the Embassy Suites. Greg Sarratt, W4OZK, is the ARRL's Section Manager for Alabama and a D-STAR promoter:

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W4OZK: "It is bringing a lot of world wide players in one room, so we can get to know one another, build relationships and swap ideas. We are also going to do a D-STAR presentation for 'em."
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And what better place for that to occur than in Alabama, which Sarratt sez is setting the pace for other states to follow in implementing D-STAR:

W4OZK: "I am really proud of the fact that Alabama leads the nation in the number of D-STAR systems, the number of repeaters. users and activity."

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More and more Alabama ham repeaters are taking their first steps to digital by augmenting traditional F-M operation with D-STAR. The state also hosts the fastest growing D-STAR user community anywhere in the nation. D-STAR, Digital Smart Technologies for Amateur Radio, is a new frontier for hams. It was born from research by the Japan Amateur Radio League investigating digital technologies for ham radio. D-STAR is a digital voice and data protocol specification developed for use on VHF and UHF Amateur Radio frequencies.

In addition to the over-the-air protocol using D-STAR compliant radios, D-STAR also provides specifications for network connectivity -- that enables these next generation radios to be connected to the Internet or other networks. And because of the growing interest among VHF and UHF relay enthusiasts, three D-STAR forums are planned during the Huntsville Hamfest in addition to the national users meeting. A D-STAR Hamfest booth and demonstrations of the technology are also planned.

With D-STAR likely to become the successor to today's analog F-M repeaters, whether you just want to learn the basics, or whether you're wanting to take the technology further, the Huntsville Hamfest promises D-STAR opportunities galore.

For the Amateur Radio Newsline, I'm David Black, KB4KCH, at the Southeast Bureau in Birmingham, Alabama.

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Again, that's Saturday, August 18th, from 6 to 8
P.M. local time for the first-ever National
D-STAR Users Meeting at the Embassy Suites Hotel
in Huntsville, Alabama. We hope to see you there.

Information on additional events, hotels and
hamfest can be found at:
www.arrl.org/announce/nc/2007/huntsville.html,
http://www.hamfest.org/ and
www.arrl-al.org/Alabama_link.htm   (ARNewsline(tm), WB9QZB, W4OZK)

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ENFORCEMENT: 10 METER UNLICENSED TRUCKER DINGED BY THE FCC

A follow-up to our story two weeks ago about the
invasion of 10 meters by Freeband operators and
truckers using illegal C-B radio gear. The FCC
has now acted in one case where truckers have
been found to have illegally taken up operation
on 28.085 MHz and is warning the company it will
face stiff fines if the pirate operation does not cease.

The target of the FCC enforcement action is
Tennessee Steel Haulers of Nashville,
Tennessee. In a letter to the company the FCC
says that it has evidence that at least one of
Tennessee Steel Haulers drivers had been
operating radio equipment on 28.085 MHz without a
license and causing interference to licensed
stations in the Ten Meter Amateur
Band. Specifically that this past May 3rd the
driver was observed on Interstate 85 in Gastonia,
North Carolina, at 6:40 P.M. while operating the radio gear.

Tennessee Steel Haulers were warned that this
type of unlicensed operation is a direct
violation of Section 301 of the Communications
Act of 1934. The penalty for such operations
includes the possibility of seizure of any
non-certified radio transmitting equipment along
with a hefty fine or even time in jail.   The
company was also instructed to contact FCC
Special Counsel Riley Hollingsworth to discuss the issue with him. (FCC)

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ENFORCEMENT: HAMTRONICS RECEIVER INTERFERES WITH SARSAT

The FCC has issued a Citation to a California
resident whose U-H-F radio receiver caused
accidental interference a radio frequency used by
the National Oceanic and Atmospheric

Administration. Henry Feinberg, K2SSQ, reports:

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In its June 18th notification to Fred Caughell of Bakersfied, the regulatory agency noted that in response to a complaint from NOAA, an investigation by the Enforcement Bureau's Los Angeles Office took place. It revealed that last May 10th Caughell operated a Hamtronics R901 receiver that produced an emission on 406.086 MHz with a field strength greater than the limit allowed under the FCC rules. It also noted that the radiated emission on 406.086 MHz is within the 406.0-406.1 MHz band, which is reserved for use by low power satellite emergency position-indicating radio beacons.

The National Oceanic and Atmospheric Administration operates the Search & Rescue Satellite Aided Tracking System better known by the acronym SarSat. That agency had complained to the FCC that a 406.086 MHz signal in Bakersfield had the potential to cause interference to their life-saving system.

In the Citation, Caughell was told that violations of the Communications Act or the Commission's Rules may subject the violator to substantial monetary forfeitures, seizure of equipment and criminal sanctions, including imprisonment. He was also told to call the Los Angeles area FCC office to schedule an interview with a field engineer or to submit a detailed written response within 14 days of the issuance of the Citation order.

For the Amateur Radio Newsline, I'm Henry Feinberg, K2SSQ.
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The FCC says that Caughell's response will be used by the agency to determine if further enforcement action is required.   (FCC)

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ENFORCEMENT: WAYWARD SAFETY LIGHT BRINGS FCC CITATION

A malfunctioning security light has brought a New Mexico resident a citation from the FCC. In its June 18th action, the regularity agency wrote to Fred Grant of Albuquerque citing him for operating a security light located atop the garage of his residence that was interfering with wireless car remote keys being used near his residence.

Agents from the Denver Office investigated the complaint and found that wireless remotes

operating on 315 MHz did not function in the area immediately near Grant's residence. The agents located the interfering signal as coming from Grant's single family residence. Further investigation this past May 7th revealed that the source of the interfering signal was the security light.

Grant was given 14 days from the date of the FCC action to y request an interview at the closest FCC Office or to submit a written statement to specify what actions have been taken to correct the violation . He was also told that any statement or information provided may be used by the Commission to determine if further enforcement action is required. Such action could include government seizure of the interfering lighting system and a fine of up to $10,000 for using it. (FCC)

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ENFORCEMENT: YOU CANT USE THOSE REPEATERS

A pair of hams who refused repeater owner requests to not operate on their systems have been ordered to comply by the FCC. In two separate cases the FCC notified Donald Ellis, KB0TVP, of Sioux Falls, South Dakota and William Westley, Jr, AF4GC, of New Port Richey, Florida, that they must not operate on certain repeaters in their geographic areas.

Prior to the FCC acting, Ellis was requested by the licensees of W0MXW and K0RGR repeaters to stop from using them. Westley had been asked by the licensee of the W4FLG repeater to stop using that machine. The FCC said it took the enforcement action because neither ham would follow the user operational guidelines as set forth by the licensees and the control operators of the two systems. (FCC)

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NEW PRODUCTS: RDL INTRODUCED 18 WATT STICK-ON AUDIO AMP

Need some extra audio in a small space? Radio Design Labs is offering the ST-PA18 18-watt utility power amplifier as part of the company's line of Stick-On products. The ST-PA18 features a balanced line-level input that may be connected unbalanced. The gain control range accommodates standard unbalanced levels as well as professional balanced levels. The module bridges the input signal.. Now heres the best part. The bottom adhesive permits permanent or removable mounting. The amplifier can also be used with RDL's racking accessories. More is on line at www.rdlnet.com/ (RW)

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NAMES IN THE NEWS: RSGB PRESIDENT AND THE LONDON 10K RUN

Some names in the news. First are RSGB President Angus Annan, MM1CCR, and Financial Controller Marilyn Slade, 2E1GKR, who have taken part in the British London 10K run. The event was held on Sunday the 1st July with the RSGB in support of the British Wireless for the Blind organization. More is on-line at www.blind.org.uk. (GB2RS)

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NAMES IN THE NEWS: VK5ZAI NAMED AUSTRALIAN ARISS COORDINATOR

And congratulations Tony Hutchison, VK5ZAI, who has been named to the newly created WIA board position of Australian National Coordinator for Amateur Radio on the International Space Station. The official recognition of Hutchison's work took place at the recent Wireless Institute of Australia annual meeting. That's where he had gone to addresses board members with an outline of the Amateur Radio on the International Space Station educational program and its aims. (K1STO)

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BREAK 2

This is ham radio news for today's radio amateur. From the United States of America, We are the Amateur Radio Newsline with links to the world from our only official website at www.arnewsline.org and being relayed by the volunteer services of the following radio amateur:

(5 sec pause here)

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WORLDBEAT - HUNGARY: TEMPORARY 70 MHZ ALLOCATION APPROVED

Hams in Hungary have a new albeit temporary band to experiment on. This, with word that the nations telecommunications regulator has issued an experimental radio license to the Haros Radioklub which permits radio use of the Region 1 exclusive 70 MHz band for a period of 30 days that began on July 1st.

The license permits 30 Hungarian hams from the club to use the frequency range of 70.000 to 70.500 MHz, using all operating modes. This means CW, SSB, narrow band FM as well as digital

modes like JT6M. The maximum effective radiated power is limited to 1 kilowatt.

The aim of the experiment is to study propagation in the 70 MHz band where all commercial FM broadcasting was ended this past February. The long term goal is to contribute to the joint effort to help create a 70 MHz amateur radio service allocation for Hungary and eventually expand it worldwide. (Skywaves, Southgate)

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CONTEST CORNER: CQ WW VHF CONTEST JULY 21-22

Turning to radio sports news, the 2007 CQ World Wide VHF Contest will take place this year on July 21st to the 22nd. The objectives of this competition is for amateurs around the world to contact as many other hams as possible in the contest period. Its also a vehicle to promote VHF operations, to allow VHF operators the opportunity to experience the enhanced propagation available at this time of year, and for interested amateurs to collect VHF Maidenhead grid locators for awards credits.

All authorized Amateur Radio frequencies on 50 MHz and 144.00 MHz ham radio bands may be used as authorized by local law and license class. The complete rules appeared in the June issue of CQ magazine. They are also posted online http://www.cq-amateur-radio.com/VHFContest_Rules200741107.pdf (CQ)

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DX

In D-X, word that HB9QQ, will operate portable HB0 from Liechtenstein until 2nd July and again on July 6th to the 9th. Please use the normal QSL routes for this one.

And PA4JJ, will be active slash 9A from Porec, Croatia until the 7th of July. He will be operating mainly on the WARC bands using RTTY and PSK. QSL direct or via bureau.

Lastly, a Swedish expedition to Market Reef, is planned to take place from the 5th to 9th July. Three or four operators will be active using their home calls portable OJ0. Listen out for them on 160 to 2 meters using CW, SSB and digital modes and QSL as directed on the air.

(Above from various DX news sources)

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RADIO HONORS: ARNEWSLINE NAMES GRANT MORINE,
W4GHM, AS 2007 YOUNG HAM OF THE YEAR

Finally this week, A 17 year old from North Carolina, who carried out a major project to help hospitals in his hurricane-prone area has been chosen as the 2007 Amateur Radio Newsline Young Ham of the Year. Mark Abramovich, NT3V, who happens to head up the awards judging committee is here with the details:

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W4GHM: "This is so cool. I'm smiling from ear-to-ear right now."

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That's Grant Morine of Wilmington, N.C., who was ecstatic to learn first that he had been nominated and then recognized as the top selection of the Young Ham of the Year judges.

Morine is W4GHM, a Technican, and the son of Bill and Pam Morine. He's going into his senior year at New Hanover High School's Lyceum Academy where he's enrolled in several advanced placement courses.

Bill Morine is N2COP and an American Radio Relay League Public Information Coordinator in Wilmington.

Grant and his dad are active members of the Carolinas Amateur Radio Emergency Services which provided the impetus for his Eagle Scout service project helping the Coastal Carolinas Health Alliance.

That organization covers seventeen hospital campuses throughout North and South Carolina.

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W4GHM: "I was looking at the Katrina disaster down in New Orleans and how there was a lack of communications and how amateur radio operators stepped up to the plate down there and helped relay the emergency traffic," Morine recalls. "And, I was talking to my dad, who is in on the CARES and CCHA, and he was saying there's a need for emergency communications systems in the CCHA.

"So, I said, 'Why can't I build some antennas and give them out to the 22 hospitals and five Red Cross chapters?' So I did that, and I made some spares and I found a design on the Internet - 220Mhz J-pole."

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Grant, his father, and mentor Paul Magnabosco, AD4HZ, tweaked the design. Grant says he then went to the local Lowe's and got them to donate enough PVC pipe to build 30 antennas.

He says he bought the rest of the materials with his own money and was reimbursed by the Coastal Carolinas Health Alliance.

Grant says he enlisted a number of fellow Scouts in Troop 215 in Wilmington to help him build the antennas and then they were distributed to the hospitals and Red Cross chapters.

Grant, a National Honor Society member who also runs track and cross country and plays lacrosse, says his interest in amateur antennas and how they work started some six years ago - after he got his ham ticket.

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W4GHM: "Kids were doing all sorts of weird projects and such and I had just gotten my license back in 2001 when I was going into sixth grade," Morine says. "I remember I was looking for an idea to do my first science fair project because I never had to do it before and I was like, 'Man, this sounds hard.' And, my dad was like, 'Hey, you just got your ham radio license and you can operate, you'll be the only kid who can do that. Why don't you do a topic in ham radio?

"I said, 'All right.' So, the first project, we made a copper Cactus J-pole and that was the first science fair project and I got to like it and I was like, 'Hmm, I can build all sorts of things that can talk to people all over the world out of copper piping that a plumber would use. This is pretty cool.'

"So then we started building more and more antennas and then next year I built it was like four Quads like made of wood with four copper wires bent into diagonal cubes, he continues. "And, then eighth-grade year we got a chili can and stuck a clothes hanger out of the top and I can't remember how far we got off that but I actually won the state science fair with that and I got first place."

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Grant says he's active when he can be in emergency communications and likes to rag-chew.

Besides school and ham radio, Grant says Scouting is a big part of his life. He has served as a senior patrol leader in his troop, is a

brotherhood member of the Order of the Arrow, and
has earned 41 merit badges - 21 of those required for Eagle.

He says he's planning to earn the Bronze, Silver and Gold palms.

Grant says Scouting also has provided him with many great outdoor
 experiences.

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W4GHM: "In 2004, I went to the Philmont National
Scout Ranch out in Cimarron, New Mexico, and I
hiked 74 miles out there in July 2004," Grant
says. "In 2005, I attended the National Scout
Jamboree (outside Winchester, VA) which went on
for 11 days and it let me try so many different
things like scuba-diving, and snorkeling and
kayaking, and it was just a really cool experience."

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When he grows up and eventually gets married,
Grant says Scouting will continue to be a part of his life.

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W4GHM "I'm definitely going to put my children,
whether they be boy or girl, into the Scouting
program and I'll probably become a leader in that
because Scouting has given me so much in my life."

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With high school graduation closing in, Grant says he already has a game
 plan.

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W4GHM: "Right now, I'm looking at attending the
Naval Academy and from there going to Duke Law
School," Grant says. "And, then being a JAG in
the Navy or the Marines, I haven't determined which one, yet.
"And, then I don't know if I'd be a civilian
lawyer or continue to serve in the military. But,
right now, I want to pursue law."

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Grant says a recent experience solidified his career goal.

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W4GHM "I went to Boys State recently and I
participated in the Moot Court. And, I passed the
bar there and got sixth highest out of 44 kids.
And, then I won the position of attorney general

and we got to prosecute and defend a make-believe case about a rape and a murder. I really enjoyed that."

And, finally, what does receiving the Young Ham of the Year Award mean to Grant?

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W4GHM "It would mean that in the eyes of the ham radio community I've done a lot of things as a youth ham like all the science projects and such and the Eagle project and that I'm being honored for it and it's kind of luck a thank you for promoting the hobby and what we do, especially when it comes to the emergency services," he says. "And, I just think it would be a good honor to have."

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We, the judges, think so, too, Grant. Congratulations!

For the Amateur Radio Newsline, I'm Mark Abramowicz, NT3V, in Philadelphia.

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As 2007 Young Ham of the Year, Grant Morine, W4GHM, will receive an expense paid trip to the 2007 Huntsvile Hamfest and ARRL National Convention. This, courtesy of corporate underwriter Vertex-Standard corporation which will also present Grant with a gift of the company's Yaesu brand Amateur Radio gear. Grant will also get to spend a week at Spacecamp compliments of corporate underwriter C-Q Magazine. The Huntsville Hamfest and ARRL National Convention is slated for August 18th and 19th at the Von Braun Center in Huntsville, Alabama. (ARNewsline(tm))

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NEWSCAST CLOSE

With thanks to Alan Labs, AMSAT, the ARRL, the CGC Communicator, CQ Magazine, the FCC, the Ohio Penn DX Bulletin, Radio Netherlands, Rain, the RSGB, the Southgate News and Australia's W-I-A News, that's all from the Amateur Radio Newsline(tm). Our e-mail address is newsline@arnewsline.org. More information is available at Amateur Radio Newsline's(tm) only official website located at www.arnewsline.org. You can also write to us or support us at Amateur Radio Newsline(tm), P.O. Box 660937, Arcadia, California 91066.

For now, with Bill Pasternak, WA6ITF, at the

editors desk, I'm Jim Damron, N8TMW, and I'm Jeff
Clark, K8JAC, saying 73 and we thank you for listening.

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